

A black and white photograph of a forest stream. Sunlight filters through the dense canopy of tall trees, creating bright, vertical streaks of light on the water's surface and the surrounding forest floor. The water appears calm, reflecting the light from above. The forest floor is covered with fallen leaves, twigs, and other organic debris.

Riparian Management

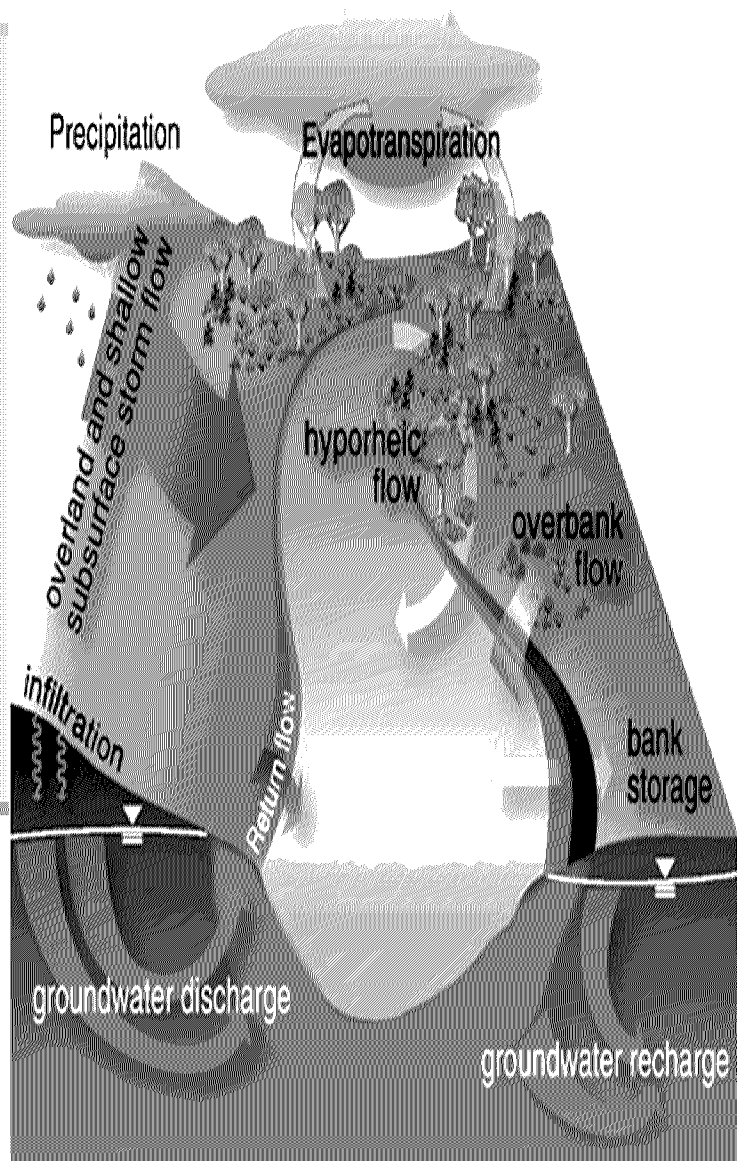
2010 Forest Team Meeting
Skamania, WA

Today's Goal

- Understand what is happening in OR, WA, ID, AK, with regard to riparian management on state, federal, and private land
- Understand key concerns
- Understand how EPA ties in
- Ensure consistent messaging across EPA R10
- Where to get more information

The What...

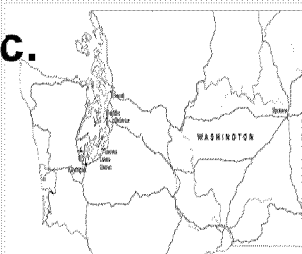
- Interface between terrestrial and aquatic
- Horizontal, Longitudinal, Vertical



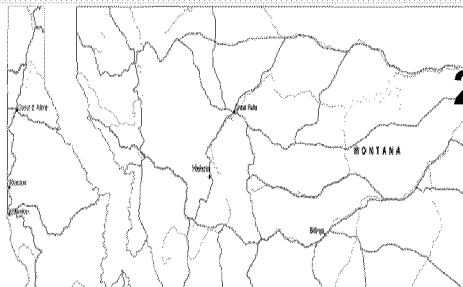
How Much...

- Riparian areas along higher order perennial streams represent around 2% of the landscape

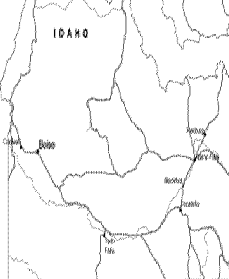
**873,000 ac.
(1.9%)**



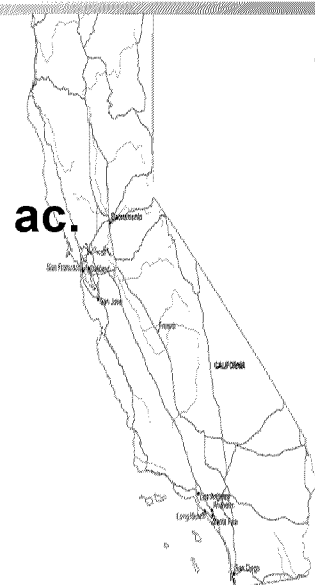
**2.2 million acres
(2.3%)**



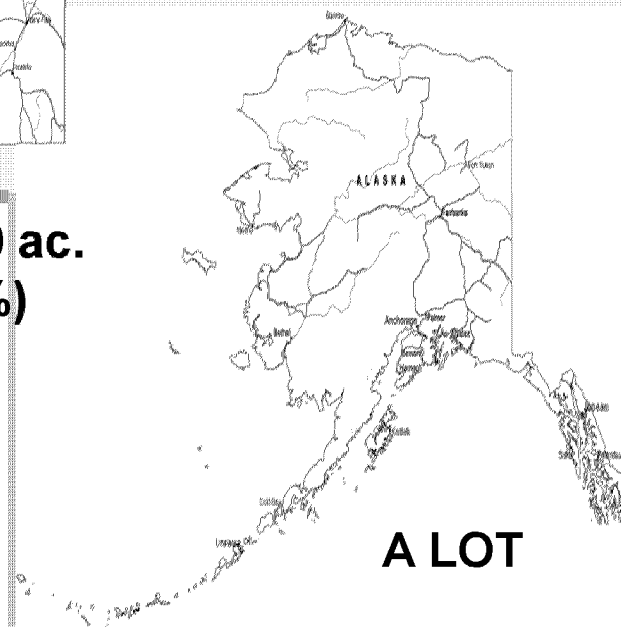
**1.4 million ac.
(2.3%)**



**800,000 ac.
(1.5%)**



**2.6 million ac.
(2.5%)**



A LOT

How much...

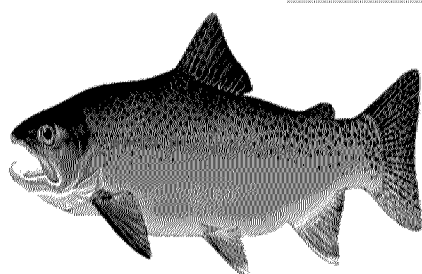
- Headwater streams can account for 70% of the drainage area
- Stream lines on USGS and NRCS maps can be incomplete for headwaters



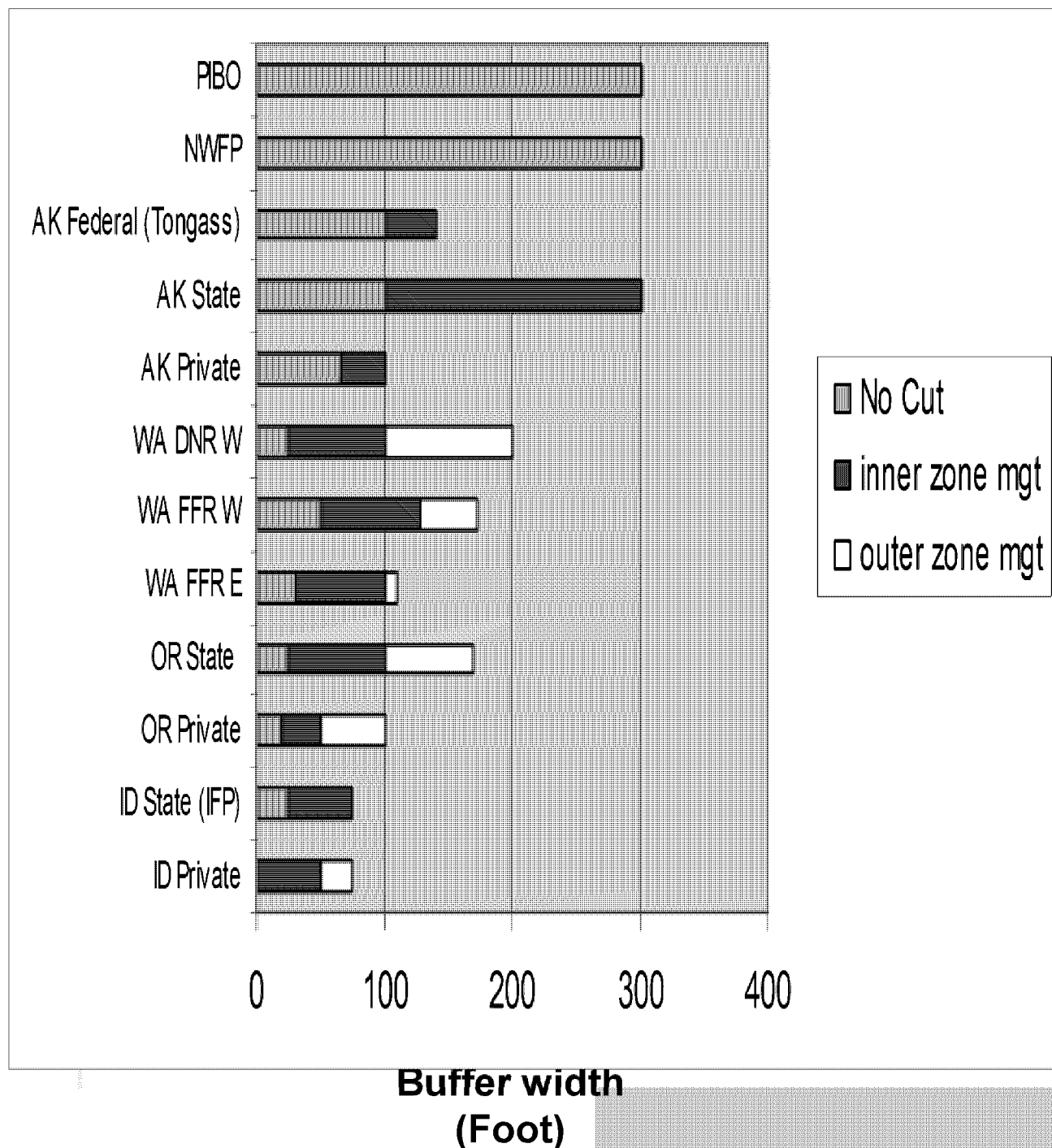


The Why...

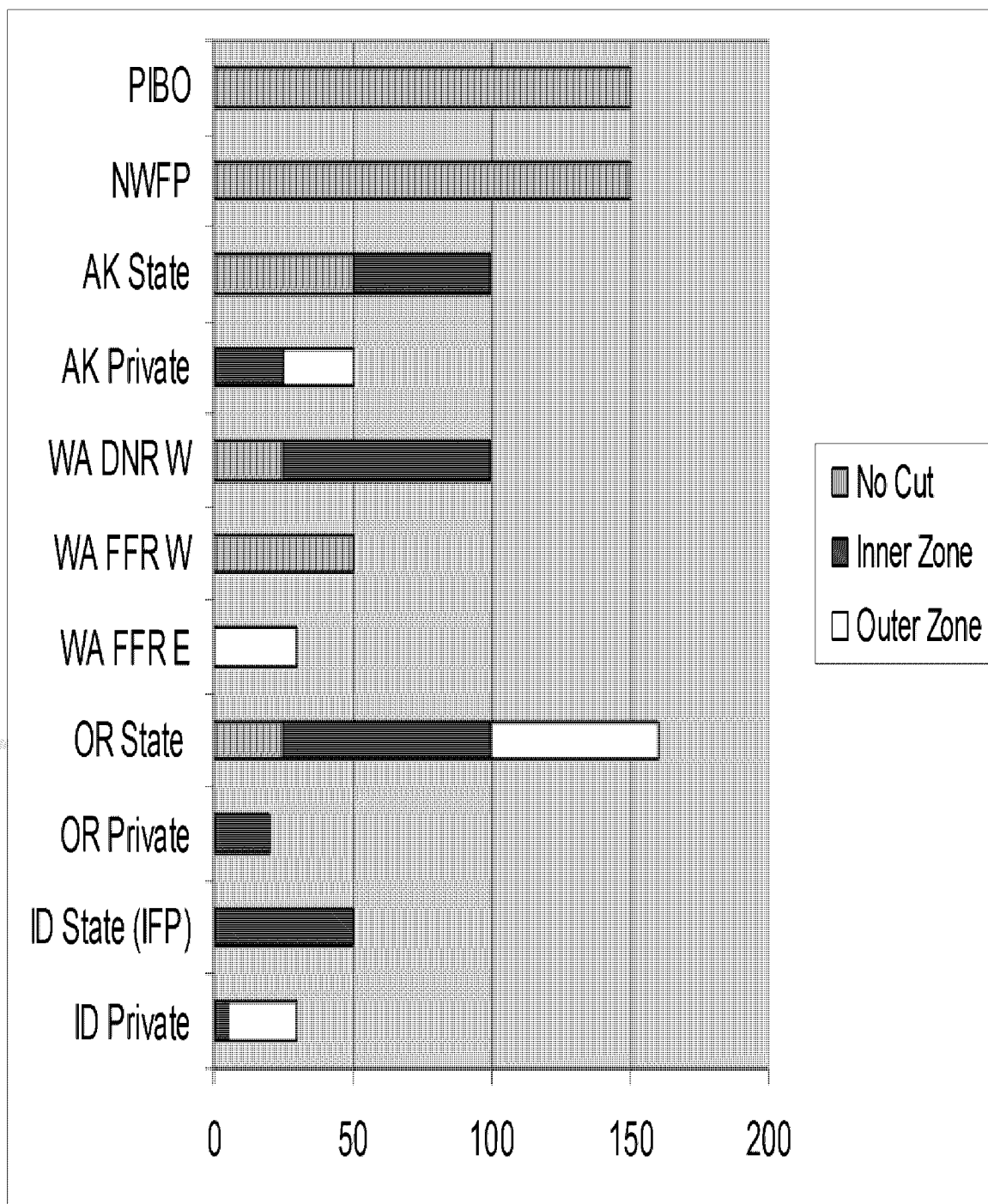
- Forested areas provide water to 40% of all municipalities
 - 180 million people in the US
- Water quality and quantity
- Aquatic and terrestrial life
- Sediment Retention
- Stream bank building/maintenance
- Services of economic/social value



The How: Fish Bearing Streams



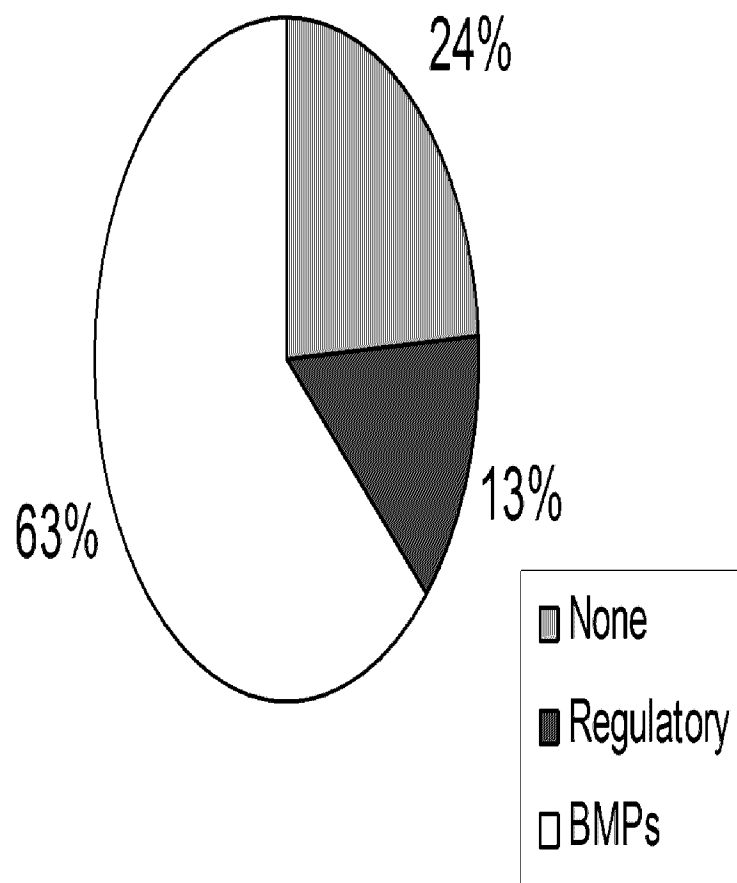
The How: Non-Fish Bearing Streams



Regulatory Context

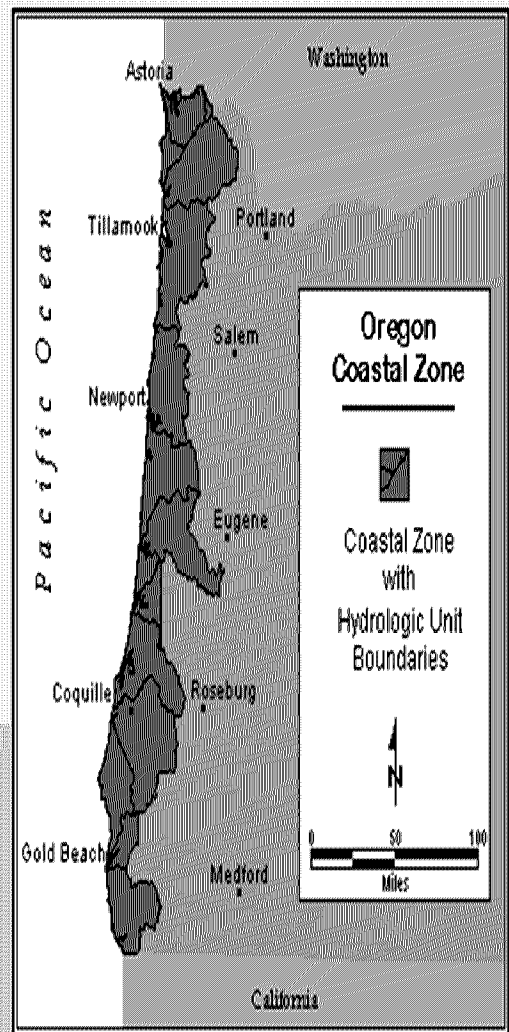
- **Alaska**
- **California**
- **Idaho**
- **Minnesota**
- **Montana**
- **Oregon**
- **Washington**

State Forest Practices

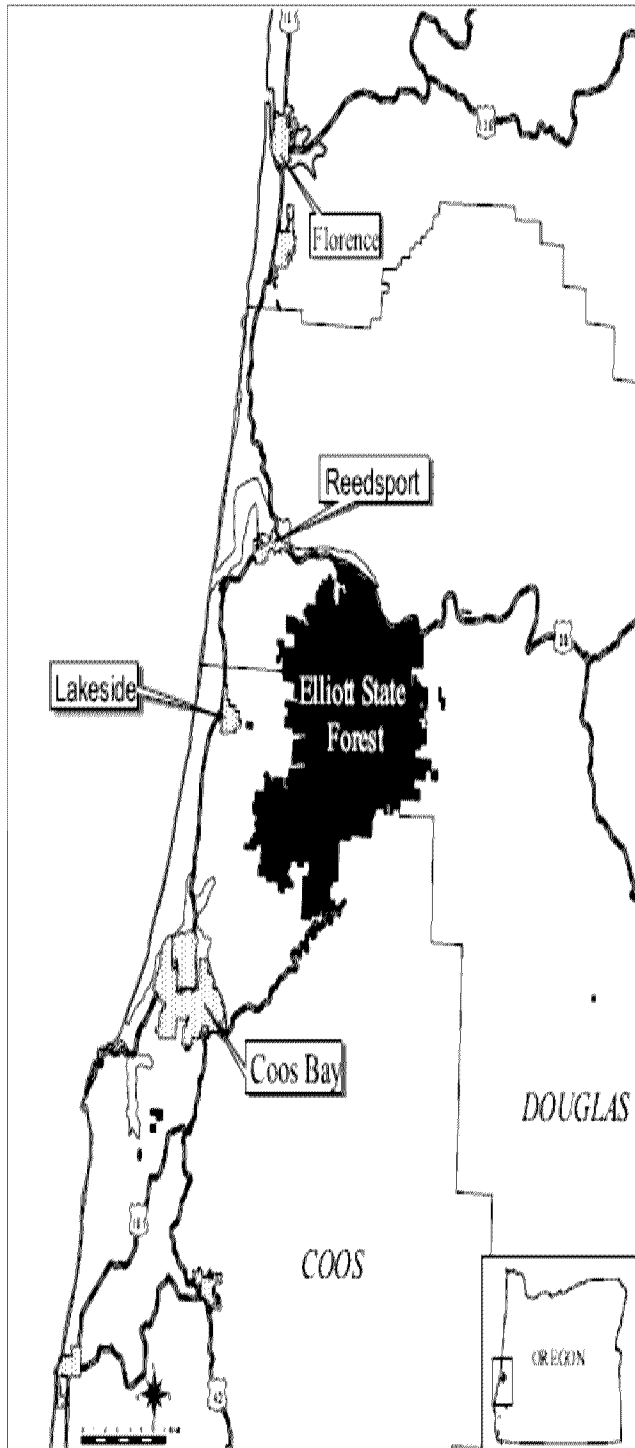


What's Swirling in Oregon

- CZARA
 - Riparian mgt (small, med, N)
 - High risk landslide areas
 - Legacy logging roads.
- Signed Settlement Agreement
 - Notice intent to approve or disapprove by November 2013.
 - Issue decision Nov. 2014
- Next Steps
 - DEQ "Implementation Ready" TMDLs
 - Safe Harbor BMPs
- EPA's angle:
 - We were sued
 - Contact: Dave Powers



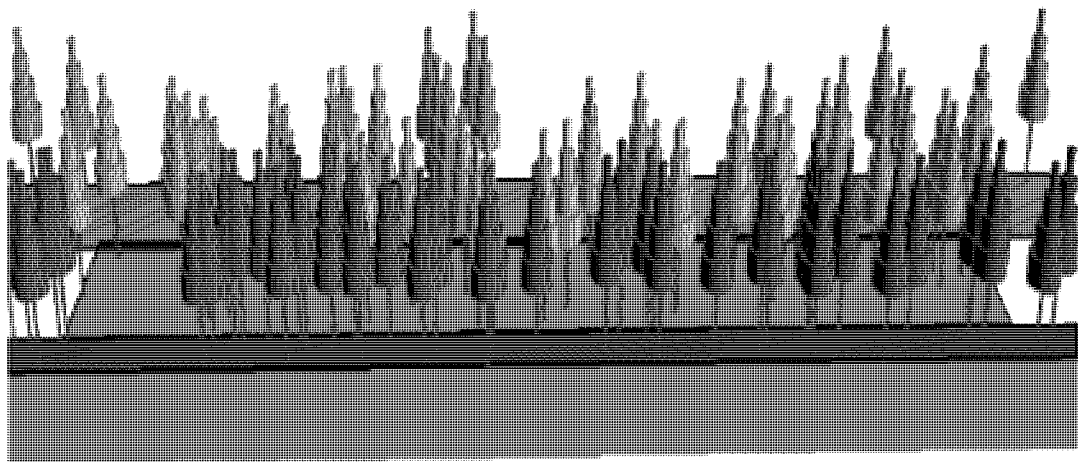
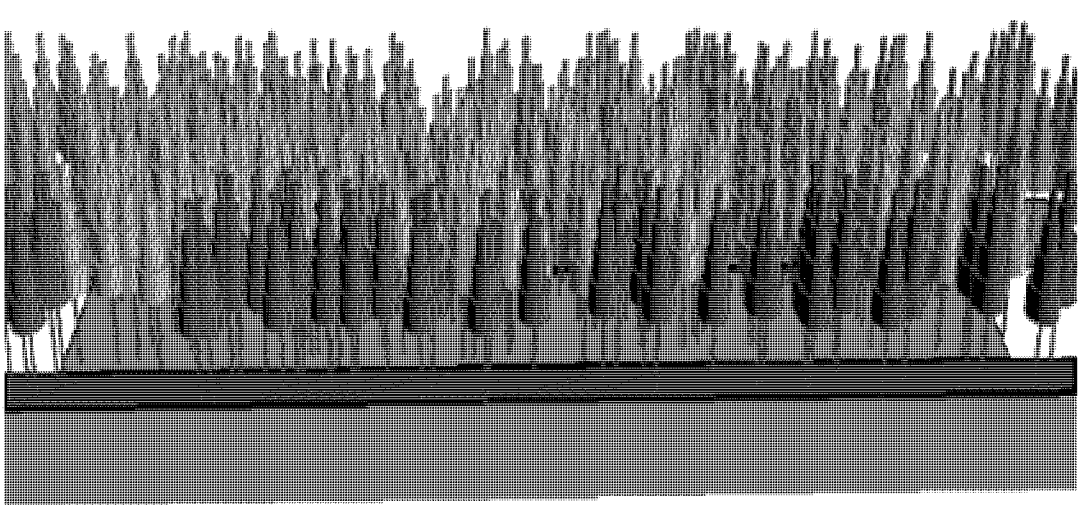
What's Swirling – Oregon Elliott State Forest HCP



- 93,000 Acres
- Managed for Common School Fund
- Coos Bay, Umpqua and Tenmile Lakes watersheds

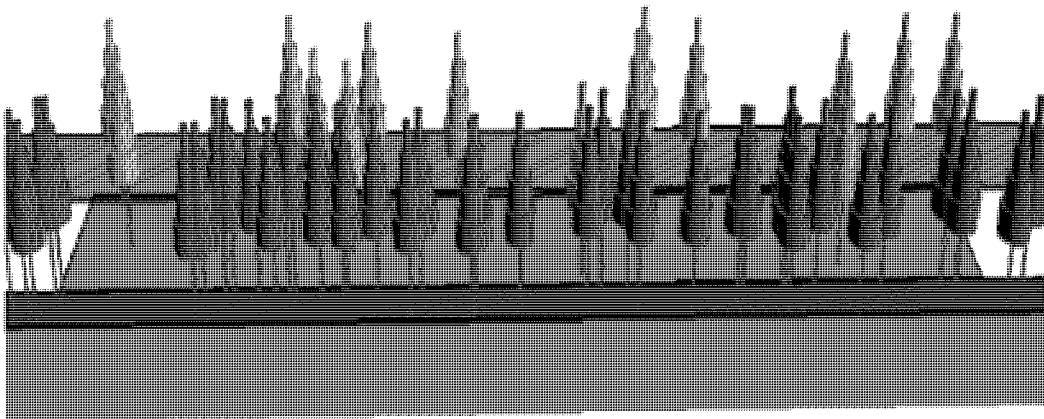
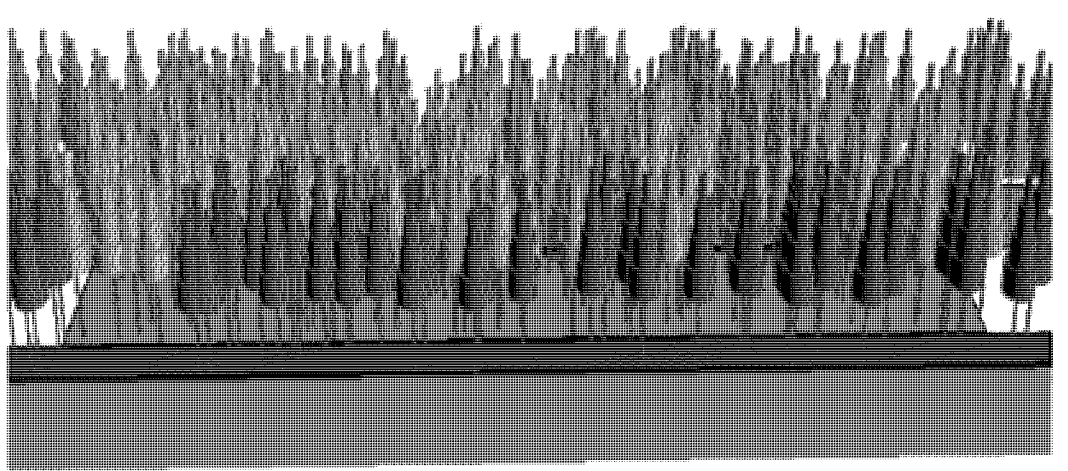
What's Swirling - Oregon

Elliott State Forest HCP (Perennial Streams)



What's Swirling - Oregon

Elliott State Forest HCP (Seasonal Streams)



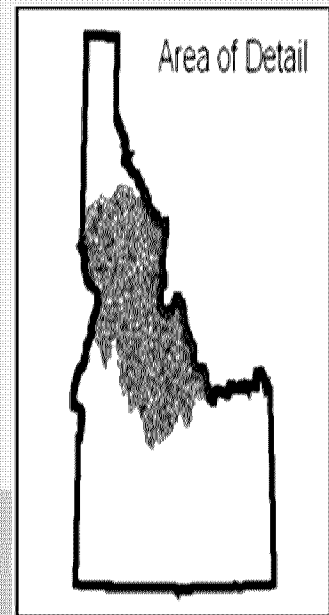
What's swirling – Oregon

- Proposed Elliott HCP would be less protective of water quality
 - Shade/Temperature is a key issue
 - Preferred alt would reduce shade 40 years into the future
- State moving to adopt “take-avoidance” in lieu of HCP. Strategy same as HCP
- EPA's angle:
 - NEPA 309 comments
 - Leinenbach shade analysis
 - Contact: Kubo/Leinenbach

What's swirling – Idaho

- Idaho Forestry Program

- Salmon and Clearwater Basins (subject to Snake River Basin Adjudication)
- Less protective than the Elliott strategy
- Seeking ESA coverage under section 6
- EPA angle: NEPA comments on Idaho Forestry Program.
- Technical support from Leinenbach and Woodruff
- Contact: Erik Peterson



What's Swirling – Idaho

- Idaho Shade Subcommittee
 - Seeking rule change
 - Relies on analysis that EPA has shown to be flawed
 - Shade targets below measured shade
 - EPA Angle: Participate on shade subcommittee.
- Contacts: Woodruff/Leinenbach

What's Swirling - WA

- WA received CWA “Assurances” under Forest and Fish
 - Expired in 2009
 - Conditionally Extended
- EPA Angle: Type N streams, landslide prone areas and AM
- Contact: Dave Powers, Dave Ragsdale

What's swirling – FS Land

Oregon:

- NWFP TMDL Implementation Strategy
 - Desire to manage within riparian reserves
 - FS/BLM seeking programmatic BA for thinning in Riparian Areas
 - NOAA & EPA have cited shade and structural habitat concerns
- EPA Angle: NEPA comments, TMDL implementation strategy comments
- Contact: Powers/Kubo

What's swirling - BLM

Oregon

- WOPR ROD withdrawn.
Would have significantly reduced riparian protections
- WOPR Task Force issued recommendations
 - Science team review of WOPR (including riparian)
 - BLM continues to believe that O&C land should be managed differently

What's swirling – FS Land

- Washington
 - Westside TMDL (Olympic, Mt Baker-Snoqualmie, Gifford Pinchot)
 - Proposing to use NWFP ACS
 - Ecology pursuing addl assurances (specific BMPs)
 - FS proposed TMDL implementation strategy approach from OR
 - Ecology and EPA have issued concerns over how that document has been applied in OR

This Issue – Thinning in Riparian on FS Land

- Focus on 80% shade as adequate.
- Focus on solar loading between 10:00 am and 2:00 pm
- Discounting of secondary shade zone

What's Swirling – Science

- RipStream – Oregon
 - Numeric Criteria being met BUT
 - 40% post-harvest exceedance rate of the PCW criterion
 - Study sites are high in the watersheds and the starting temperatures are typically lower than 14°C

Questions?

